



**Ministry of Civil Aviation
Egyptian Aviation Academy**

LED Airfield lighting system, Operation and Maintenance

DESCRIPTION :

Purpose of the course:

How to use LED in Airfield lighting and Floodlighting

Course format :

- This course requires approximately 45 hours.
- This course is part of the diploma in Airfield lighting.

What you will learn :

Upon completing this course you will have the skills to:-

1. Recognize the use of LED in Airfield lighting
2. How to make maintenance for LED

Who should attend :

- Airfield Lighting Maintenance Director
- Airfield Lighting Maintenance Head of Departments
- Electrical Engineers
- Consulting offices (Project's directors and Electrical Engineers)

- Construction companys (Airports) – (Project’s directors and Electrical Engineers) (Maintenance and Projects)

PREREQUISITES :

Participants should have prior knowledge of Airfield Ground Lighting (AGL).

COURSE CONTENT :

Introduction:

1. LED introduction.
2. LED characteristics.
3. LED idea.
4. How the LED product the beam.
5. LED advantages in lighting system.
6. LED efficiency.
7. Pollution.
8. Comparison of TH and LED technologies.
9. Regulatory requirements relating to maintenance of AGL.
10. Consideration of the investment performance of an LED installation versus a TH installation.
11. Case Studies.
12. Other developing uses for LED technology at airports.
13. Maintenance considerations.
14. Operation considerations.
15. System requirements.
16. Maintenance schedules.

DURATION : 45 Hours

LEVEL : Electrical Engineers.

LANGUAGE INSTRUCTION : English /Arabic